

# Notice of Allowability

Application No.

09/882,006

Examiner

Guy J. Lamarre, P.E.

Applicant(s)

MCCARLEY ET AL.

Art Unit

2133

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4 March 2005.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 15 June 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_



Guy J. Lamarre, P.E.  
Primary Examiner  
3/22/05

### Reasons For Allowance

1. This office action is in response to Applicants' **Amendment of 4 March 2005**.
- 1.1 **Claims 1-15** remain pending.
- 1.2 The rejections of record are withdrawn in response to Applicants' Amendment.
2. **Claims 1-15** are allowable over the prior art.
- 2.1 The following is an Examiner's statement of reasons for the indication of allowable subject matter: The prior art of record is exemplified by **Zhang et al.** (US Patent No. 5,197,810).

**Zhang et al.** teaches GB 2312-80 double-byte encoding means comprising sequence conversion means, character occurrence probability computation means, ASCII data translation means, byte/character validating/decoding/deciphering means, e.g., *'In order to implement the original complex form Chinese character radical disassembling inputting method and simplified form Chinese character radical disassembling inputting method, the present invention has conducted basic research works on Chinese character. There are three morphological types of radical: stroke, radical in common sense, and radical group. The stroke is a continuous line segment in writing Chinese characters. The present invention adopts the classification and sequence of Chinese character strokes of the Chinese National Standard GB 2312-80, i.e. five basic strokes of " ". Common sense radical refers to those structures composed of intersecting and nested strokes having certain geometrical shapes and unchanged for a long time during the history of Chinese character's development. Radical group refers to a group of radicals having common geometrical characteristics. Both the simplified form radicals and the original complex form radicals adopted by the present invention comprise 187 radicals. A Chinese character is composed of radicals with certain order and relationship of geometrical position. Phrases are formed with two or more Chinese characters. The present invention can provide 5,000 or 30,000 or 100,000 phrases according to user's requirements. The present invention further creates two Chinese character attribute library and an everyday phrases bank which includes information of the order of strokes, disassembling sequence of strokes, disassembling sequence of radicals, up-to-date practical frequency,*

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*Pinyin code, National Standard code and telegraph code for each simplified form and original complex form Chinese character. In addition, a series of computer aided design programs have been developed and comprise: statistical analysis program for frequency of usage and capability of character formation of radicals; program for automatic selection of radicals according to usage frequency and capability of character formation evaluated by restricted conditions; programs for automatic code generation of Chinese characters and phrases, automatic simplified form code generation of different levels, automatic counting of identical codes by using of the Chinese character attribute library; automatic statistic program for identical codes; automatic analysis program for identical code result provided for manual interference; automatic calculating program for static and dynamic code length under various conditions; automatic calculating programs for probability of keys, second order probability of keys, probability of code sequence of keys and code element entropy; automatic calculating program for encoding efficiency; and printing program for individual character code tables and phrases code tables in the order of National Standard Code and local code as well as radical disassembling.'*

However, Zhang et al. does not teach or suggest alone or in combination designating noise states for generation of most probable state sequence to locate noise, as claimed.

2.2 Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

3. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington, D.C. 20231

or faxed to: (703) 872-9306 for all formal communications.

Hand-delivered responses should be brought to Customer Services, 220 20<sup>th</sup> Street S., Crystal Plaza II, Lobby, Room 1B03, Arlington, VA 22202.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guy J. Lamarre, P.E., whose telephone number is (571) 272-3826. The examiner can normally be reached on Monday to Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert De Cady, can be reached at (571) 272-3819.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-3609.

Information regarding the status of an application may also be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Guy J. Lamarre, P.E.  
Primary Examiner  
3/22/05

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